



# UWC – PSC Application Report

## UWC KOMEN BIOMASS – Nakhon Rat FLY ASH HOPPER

VERSION 1.02 | JULY 18TH 2018 | PROPOSE TO:

**ALPHA CONSTRUCTION**  
Bahnhofstrasse 21, 6301 Zug Switzerland

APPLIED BY WINFAIR'S PARTNER : OIC (THAILAND) CO., LTD.  
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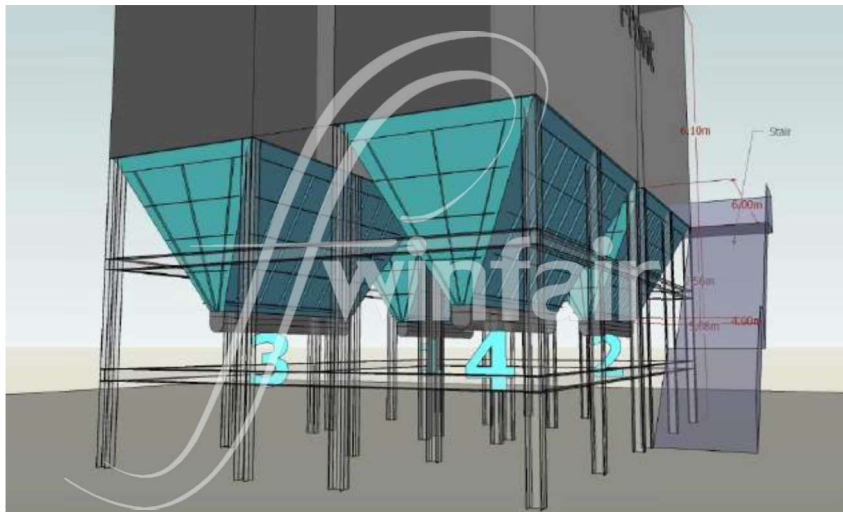
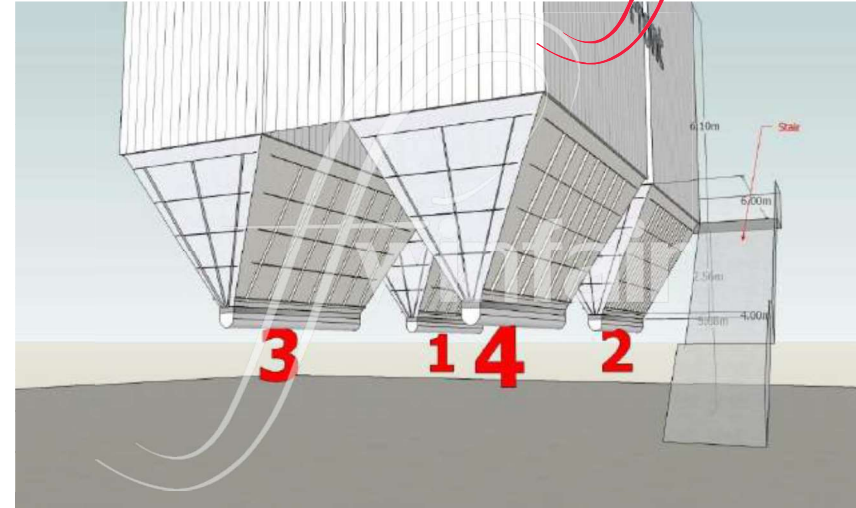
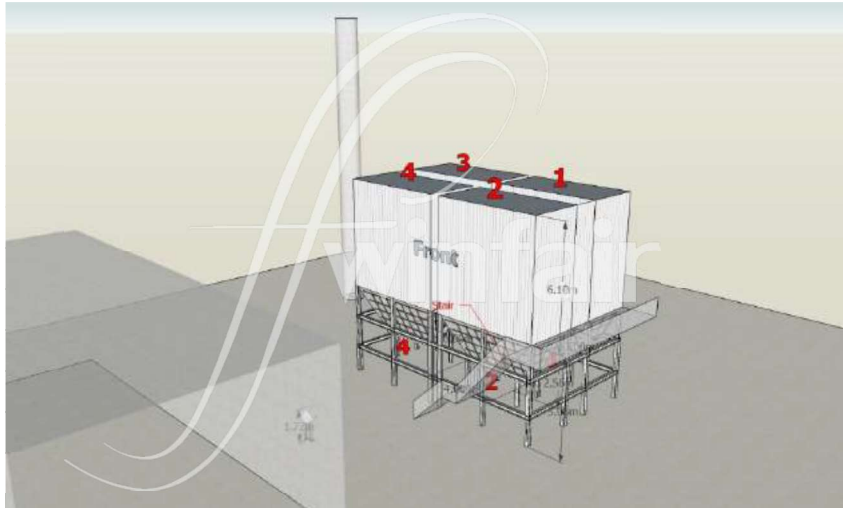
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	<b>= area of PSC coating</b>		
Area per one hopper - Big side	37.57	m2	
(include flat plate keel) - Small side	12.45	m2	
<b>Total</b>	<b>50.02</b>	<b>m2/hopper</b>	
<b>Total All Area</b>	<b>= 200.06</b>	<b>m2</b>	

Thickness application	=	2	mm.
Consumption per coat (0.5 mm.)		0.67	L/m2 (include water dilute)
		0.35	kg/m2 (include water dilute)
coat time		4	coat

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## 1 First on site 02-06/04/18 :

- A team go on site for survey and start application under supervision by Product Owner. The first schedule planning is 7 days on 02-08/04/18 but the hopper was not installed finish for all area. a problem from sometime have rain and some other.

First three day a team just can only to checking a surface and recommended by

1. have to full weldinf and complete full rustguard coating
2. then all surface must be clean and stable , no dust , no rust and oil



- After that, the hopper can complete just some side so a team decide to do just small area 5 m2 for Demonstration on No.4.

1. prepare the PSC after open by slow stirring and slowly dilute for reduce viscosity by water 300 gram(cc.)/pail
2. start apply 1st coat by Hopper Air Spray gun and control average consumption by 0.35 kg(0.67 L)/1 m2/0.5mm/coat
3. allow to dry overnight before re-coat because that day was high humidity , then apply 2nd coat same method and consumption

**\*\*\* However, this time have to stop application on 07/04/18 to wait for completion of hopper installation and beter weater.\*\*\***



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# material used = 3.50 L

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2 Second on site 26-30/04/18 :

- After confirmed the hopper had all finished, a team go on site on 26/04/18 to continue application but just can be finish only first coat on the hopper No. 2 , 4 and one side of No. 3 because had rain every day. Especialy on 30/04/18 found some areas are damage due to heavy rain previous night.

\*\*\* We discussed with plant's manager and have to stop again.



# material used = 97.50 L



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### 3 Third on site 05-09/06/18 :

- Team go on site with prepared more protection from dust and reduce raining effect
- UWC open full system and some time bypass for application. Temperature on surface before coat about 80-110 C.
- no raining



- 1 day for protection work and prepare

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- Application step :

1 day - surface preparing again, scratch to remove some from last time , clean all surface from dust and dirty , allow to dry.

- re-coat for last damage area

- apply 1st coat for remain area

3 day - apply next 3 layer by 1 coat per day

- add acrylic pain (ratio 5 cc. per pail) by blue colour at 2nd layer and green colour at 3rd, finish by nature white colour.







# material used = 432.95 L

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- after all finished and UWC run full system, able to touch direct the surface
- surface temp and total used as below.



total PSC used	533.95	L
	277.65	kg
remain PSC	3.85	L
	2.00	kg

Hopper	Average Temperature (°C)
No.1	54.83
No.2	66.42
No.3	36.31
No.4	51.30

informed by UWC at 14/06/18



THE END

